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INCH-POUND

MIL-PRF-8805/23F
3 September 1999
SUPERSEDING
MIL-S-8805/23E
23 July 1973

PERFORMANCE SPECIFICATION SHEET

SWITCH ASSEMBLIES, SENSITIVE, PUSH, MOMENTARY, 5 AMPERES, UNSEALED

This specification forms a part of MIL-PRF-8805, dated 23 January 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-8805.

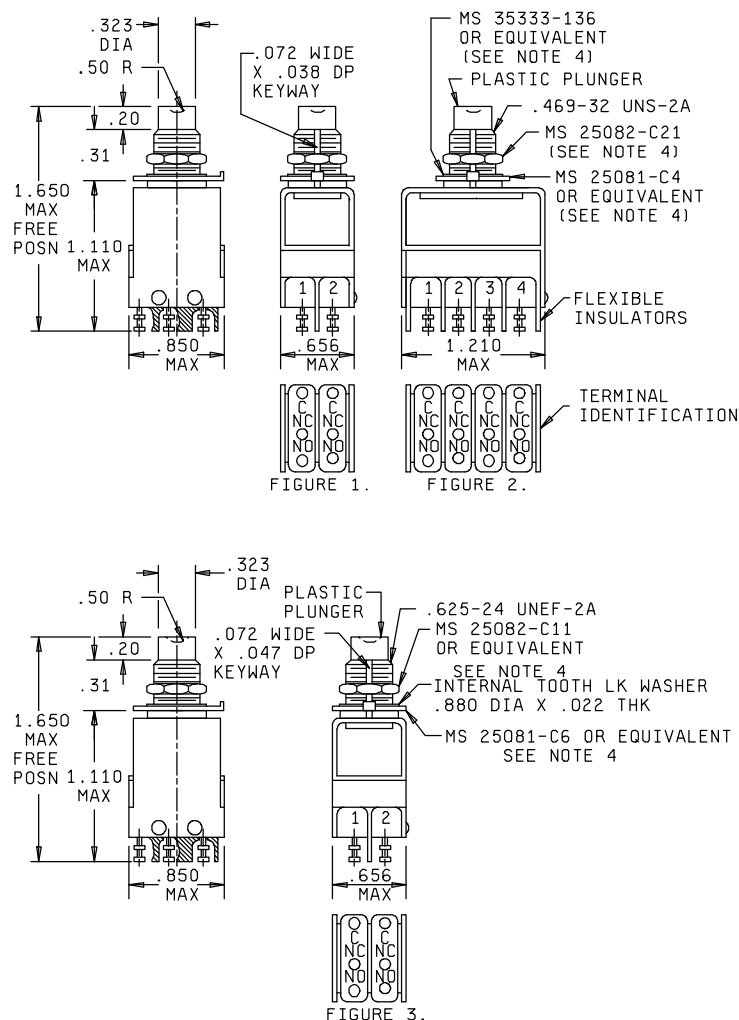


FIGURE 1, 2, & 3 Dimensions and configurations.

Inches	mm	Inches	mm
.022	0.56	.50	12.70
.038	0.97	.56	14.22
.047	1.19	.625	15.88
.050	1.27	.656	16.66
.072	1.83	.850	21.59
.20	5.08	.880	22.35
.31	7.87	1.110	28.19
.323	8.20	1.210	30.73
.469	11.91	1.650	41.91

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 (0.38 mm) for three place decimals and ± 0.02 (.51 mm) for two place decimals.
3. Metric equivalents are given for general information only.
4. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for terminal screw and lock washer material. Dimensions shall be in accordance with the referenced hardware specifications.
5. Basic switch number shall be permanently marked as shown.

FIGURE 1, 2, & 3. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

Temperature characteristic: 1 (-55°C to +85°C).

Shock type: M (100 g's, test condition I, method 213 of MIL-STD-202).

Vibration grade: 1 (10 Hz to 500 Hz).

Weight: See table III.

Operating characteristics:

Coincidence of operating and releasing points: All poles shall have transferred within .010 inch of plunger travel.

Total plunger travel: .075 inch approximately (information only).

Operating force: See table III.

Switch assembly: Basic switch shall be MS25085-2 (MIL-PRF-8805/2) switch listed on QPL-8805, except that terminal markings shall be in accordance with identification as shown on figure.

Mechanical endurance: 50,000 cycles.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

Qualification inspection (group submission): See table II.

Part numbers and characteristics: See table III.

TABLE I. Electrical ratings.

Load	Sea level		50,000 feet
	28 V dc	115 V ac, 60 Hz	28 V dc
	amperes	amperes	amperes
Resistive	5	5	5
Inductive	3	5	2.5
Lamp	2.4	1.5	2.4

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TABLE II. Qualification inspection (group submission).

Examination or test	Basic switch assembly	Additional sample units for combined submission	Extent of Approval
<u>Group I</u> Visual and mechanical examination Operating characteristics	M8805/23-004 (12 sample units)	(2 sample units each): M8805/23-001 M8805/23-002 M8805/23-003 M8805/23-004 M8805/23-005 (tested to group I only)	All
<u>Group II</u> Strength of actuating means <u>1/</u> Strength of mounting bushing <u>1/</u> Thermal shock Vibration Shock Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)	- - -	
<u>Group III</u> Salt spray (corrosion) Visual and mechanical examination	(2 sample units from group I)	- - -	
<u>Group IV</u> Low temperature operation (2 sample units only) Mechanical endurance at low temperature (2 units) <u>2/</u> Mechanical endurance at high temperature (2 sample units only) Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)	- - -	
<u>Group V</u> Electrical endurance Inductive load, dc	(2 sample units from group I)	- - -	

1/ Two sample units only.2/ Same sample units as for low temperature operation.

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TABLE III. Part numbers and characteristics.

Part number	Figure	Circuit characteristic	Operating force	Weight	Button color
			lb max	lb max	
M8805/23-001	1	2PDT	4.5	.055	Black
M8805/23-002	1	2PDT	4.5	.055	Red
M8805/23-003	2	4PDT	5.5	.075	Black
M8805/23-004	2	4PDT	5.5	.075	Red
M8805/23-005 <u>1/</u>	3	2PDT	4.5	.055	Black

1/ Inactive for new design.

Custodians:

Air Force - 11
 Army - CR
 DLA - CC
 Navy - EC

Preparing activity:

DLA - CC

(Project 5930-1691-010)

Review activities:

Air Force - 19, 99
 Army - AR, AV, MI
 Navy - AS, OS, MC